

WHAT IS CLAIMED IS:

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- A polyurethane elastomer prepared from a composition comprising
- a) at least one higher molecular weight polyhydroxyl compound having an average molecular weight of from 500 to 6,000 and a functionality of at least 2,
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- b) 2,3,5,6-tetramethyl-1,4-diisocyanatobenzene and
- c) at least one low molecular weight chain-lengthening and/or crosslinking agent having at least two hydroxyl groups and an average molecular weight of from 18 to 800.
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2. A process for the production of the polyurethane elastomer of Claim 1 in which the higher molecular weight polyhydroxyl compound a) is first reacted with the diisocyanate b) to produce an isocyanate-terminated prepolymer and the prepolymer is then reacted with the chain-lengthening and/or crosslinking agents and/or higher molecular weight polyhydroxy compounds.
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3. The process of Claim 2 in which a chain lengthening agent and/or crosslinking agent c) is present during production of the prepolymer.
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4. A shaped article capable of withstanding high mechanical stress produced from the polyurethane elastomer of Claim 1.

Sub A1
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Add B2

Add C5

Add D7